

Waste Site Cleanup Advisory Committee

October 27, 2022

Agenda (times are approximate)

- 9:00 am General updates - Liz Callahan
- 9:20 Soil reuse and disposal capacity discussions – Paul Locke
- 9:45 Brownfield Program updates – Diane Baxter & David Foss
- 9:55 AFFF Take-Back program – Cathy Kiley
- 10:05 BWSC program measures – Liz Callahan
- 10:20 WSCAC Refresh – Liz Callahan
- 10:40 Adjourn

** This meeting is being recorded. Please mute your audio.*



General Program Updates

- Office moves & hiring
- Searchable sites database “Compliance Status” issue – fixed!
- MCP amendments
- Technical Assistance Grants



Soil Beneficial Reuse and Disposal Capacity



Soil Reuse and Disposal Capacity Discussions

BWSC Advisory Committee

October 26, 2022

Paul Locke, COMM
Elizabeth Callahan, BWSC
Ken Marra, BWSC
Greg Cooper, BAW



Ongoing Discussions

- Last December's "Listening Session"
- BWSC Advisory Committee meetings
- LSPA & EBC meetings
- Meetings with
Massachusetts Soil Beneficial Reuse Coalition (MSBRC)

"a group of environmental consultants (PEs & LSPs), disposal facilities, transporters, attorneys, quasi-public entities, etc. whose mission is to develop sustainable, environmental appropriate short- and long-term soil and sediment beneficial reuse solutions for the Massachusetts construction and redevelopment market to increase the capacity to or divert wastes from existing COMM-97 facilities."

Dave Murphy, Bill French, Scott Miller, Kate Dilawari, Mike Martin, Lisa Kelley, Pete Dechaves, Lou Muratore, & many more (I understand)



Material – Excavate from 21E Sites (including Brownfield Redevelopment)

Range of Materials:

- Natural Background
- Unrestricted Use Soil, < RCS-1
- Somewhat Restricted Use Soil, < RCS-2
- “Rejected COMM-15” material (pH, conductivity, “not ND”)
- Historic Fill (concentrations vary)
- Remediation Waste
 - < COMM-97 “unlined” list
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 - > COMM-97
- Hazardous Waste (concentrations vary)

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MSBRC Proposals for Action

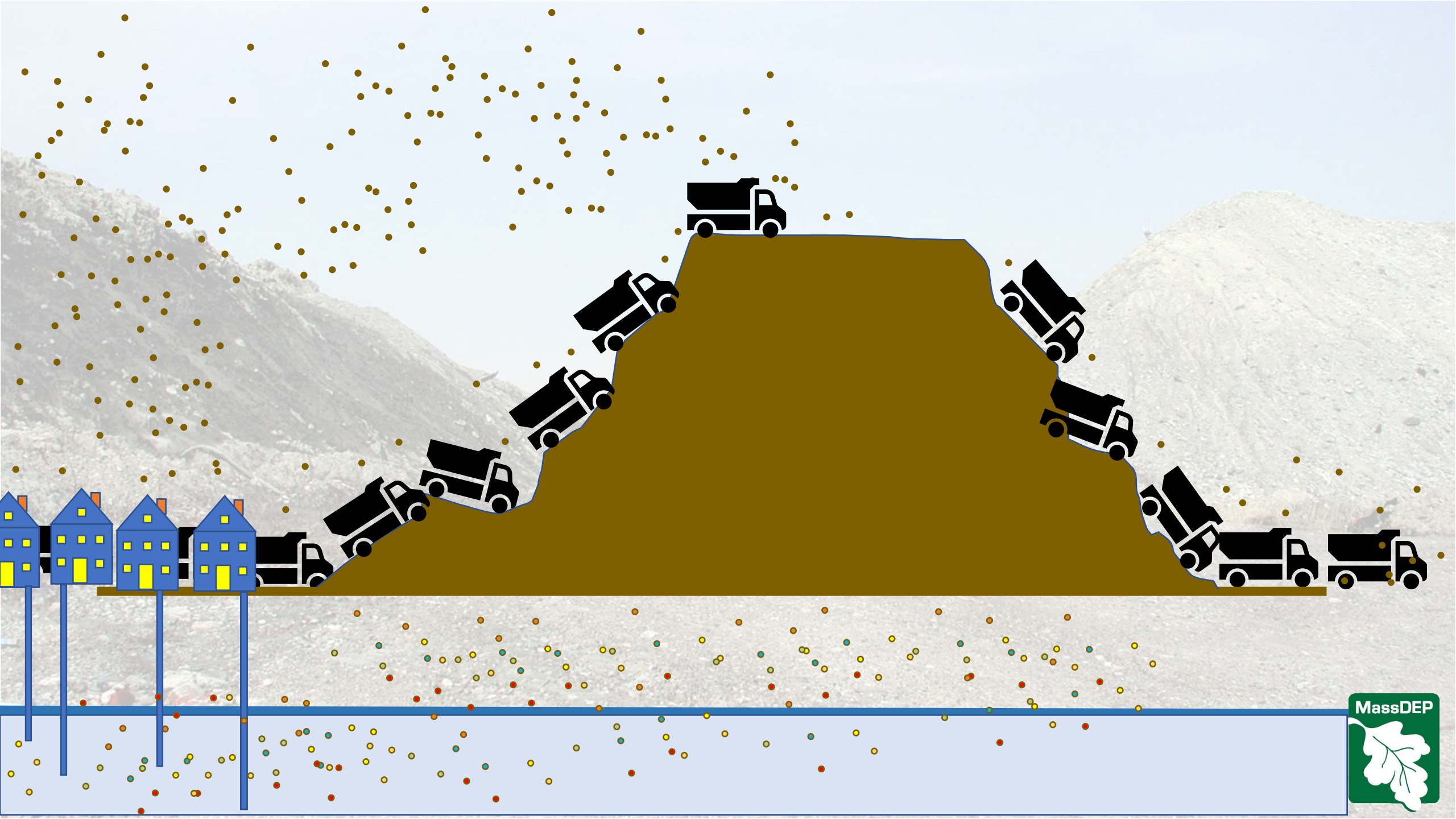
- Revisit closed landfills – accept COMM-97 soil for grading/shaping to prepare for post-closure use.
- Allow COMM-15 facilities to accept material currently rejected (pH, conductivity, >10% RCS-1, ~~<RCS-2 Remediation Waste~~)
- Allow aggregate material with low level contamination to be beneficially reused at 21E sites and highway rights-of-way
- Develop policy (COMM-23?) for reuse of Remediation Waste at “other” 21E sites
- Develop regulations and/or policies for soil monofil facilities recognizing inherent differences from MSW facilities

Concerns to be Addressed (1st cut)

- **Local acceptance**
(levels of contamination, impacts to groundwater & surface water, dust, noise, truck traffic, fits into community, etc...)
- **Control of the material**
(prevent human & environmental exposures... levels of contamination, impacts to groundwater & surface water, dust, etc...)
- **Plan for long-term maintenance**
(Binding and enforceable responsibilities & obligations, AULs, FAMs, etc...)
- **Benefits outweigh the costs**
(not just to site owner and soil generator... community benefits, facilitating public projects, climate resiliency, GHG reductions, etc...)

Finished Project must be worth it for everyone.





DISCUSSION & NEXT STEPS

- **Roles of Advisory Committees**
 - Waste Site Cleanup Advisory Committee
 - Solid Waste Advisory Committee
 - “Fees” Advisory Committee
- **Transition to New Administration**
- **DEP**

MassDEP Brownfields Program



MassDEP Brownfields Program

Contact for State Letter of Acknowledgement

David Foss

Statewide Brownfields Coordinator

MassDEP | BWSC

David.Foss@Mass.Gov

1 Winter Street – Third Floor

Boston, MA 02108



US EPA Brownfields Grants

Brownfields Funds

- Multipurpose
- Assessment
- Revolving Loan Fund
- Cleanup

FY23 MARC Grant Offerings

Grant Type/Selection List	Maximum Project Period	Maximum Amount Per Grant	Estimated # of Awards	Total Per Grant Type	
				Bipartisan Infrastructure Law Funds	Regular Appropriated Funds
Multipurpose	5 yrs	\$800,000	17		\$14.0 M
Assessment (States/Tribes)	5 yrs	\$2,000,000	17	\$35.0 M	
Assessment Coalitions	4 yrs	\$1,000,000	20		\$20.0 M
Assessment (CW) - New	4 yrs	\$500,000	36		\$18.0 M
Assessment (CW) - Existing	4 yrs	\$500,000	25		\$12.5 M
RLF (New)	5 yrs	\$1,000,000	10	\$10.0 M	
Cleanup	4 yrs	\$500,000	40	\$20.0 M	
Cleanup	4 yrs	\$1,000,000	25	\$25.0 M	
Cleanup	4 yrs	\$2,000,000	8	\$15.0 M	
			198	\$105 M	\$64.5 M



NO COST SHARE

Amounts are subject to change

Deadline: **November 22, 2022**

<https://www.epa.gov/brownfields/r1>



EPA Grant Application Resources

*It's
Free*

Technical Assistance to Brownfields (TAB) Communities

TAB EPA Region 1

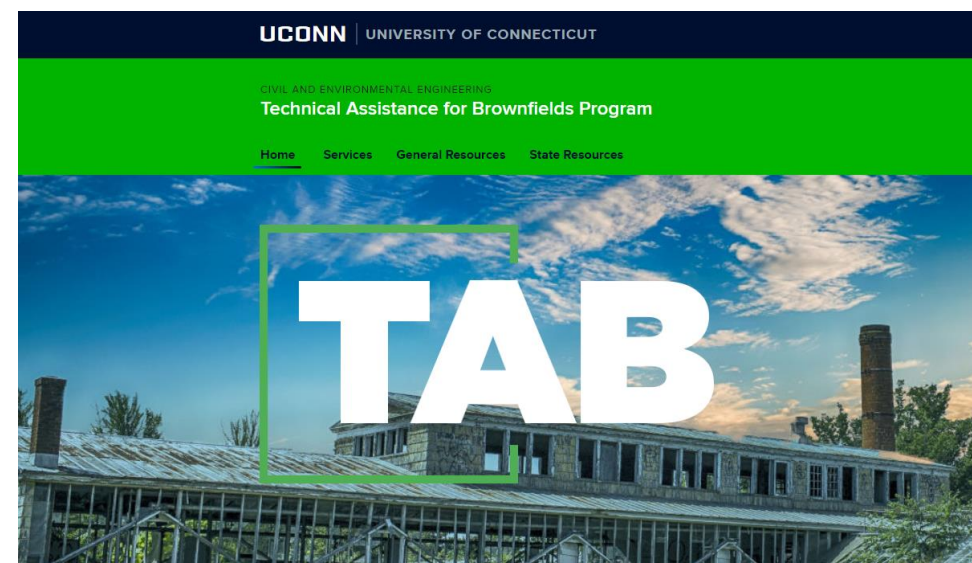
University of Connecticut

Nefeli Bompoti, Program Manager

Maria Chrysochoou, Program Director

Uconn-TAB@UConn.edu

Tel. 860-486-0611



No Cost to Eligible Applicants [municipalities, RPCs, non-profits]





AFFF Take-Back Program WSCAC Meeting 10/27/2022



Cathy Kiley
Cathy.Kiley@mass.gov
617-549-6854

AFFF Take-Back Program



- Beginning in 2018, MassDEP in partnership with MassDFS initiated a collection and destruction program for legacy AFFF (Pre-2003).
- Through July 2022, over 200,000 lbs (over 25,600 gals) of this foam had been collected from over 120 fire departments and facilities.
- MassDEP contractor NEDT collects the foam and ships it for disposal by incineration

AFFF Take-Back Program



- MassDEP is continuing the collection and destruction program for legacy AFFF (Pre-2003) as well as modern foams that contain low levels PFAS compounds.
- Since August 2022, over 27,000 lbs (over 3,100 gals) of this foam had been collected from 10 fire departments and facilities.
- Continuing to see both legacy foams and modern foams

Additional Information



- **MassDEP and MassDFS Advisory; August 2021**

<https://www.mass.gov/doc/pfas-foam-advisory/download>

- Recommended:
 - Discontinue the use of legacy PFOS and legacy fluorotelomer foams (pre-2003).
 - Use modern fluorinated foams only when absolutely tactically necessary.
 - Discontinue the use of modern fluorinated foam for training.
 - Notification to MassDEP as a courtesy call when foam is used.

- **MassDEP & CTDEEP and fire services – Study of Fluorine-Free Foam; August 2021**

<https://www.mass.gov/doc/summary-of-the-massdepctdeep-sampling-analysis-of-select-fluorine-free-foams/download>

- The study found that out of those six advertised fluorine-free foams, only one (Universal Green AR) showed no detection of fluorinated or other halogenated compounds.
- Four advertised Fluorine Free Foams PhosCheck Fluorine Free, NovaCool, Knockdown, and F500 did show very low levels of fluorine and/or other halogens.

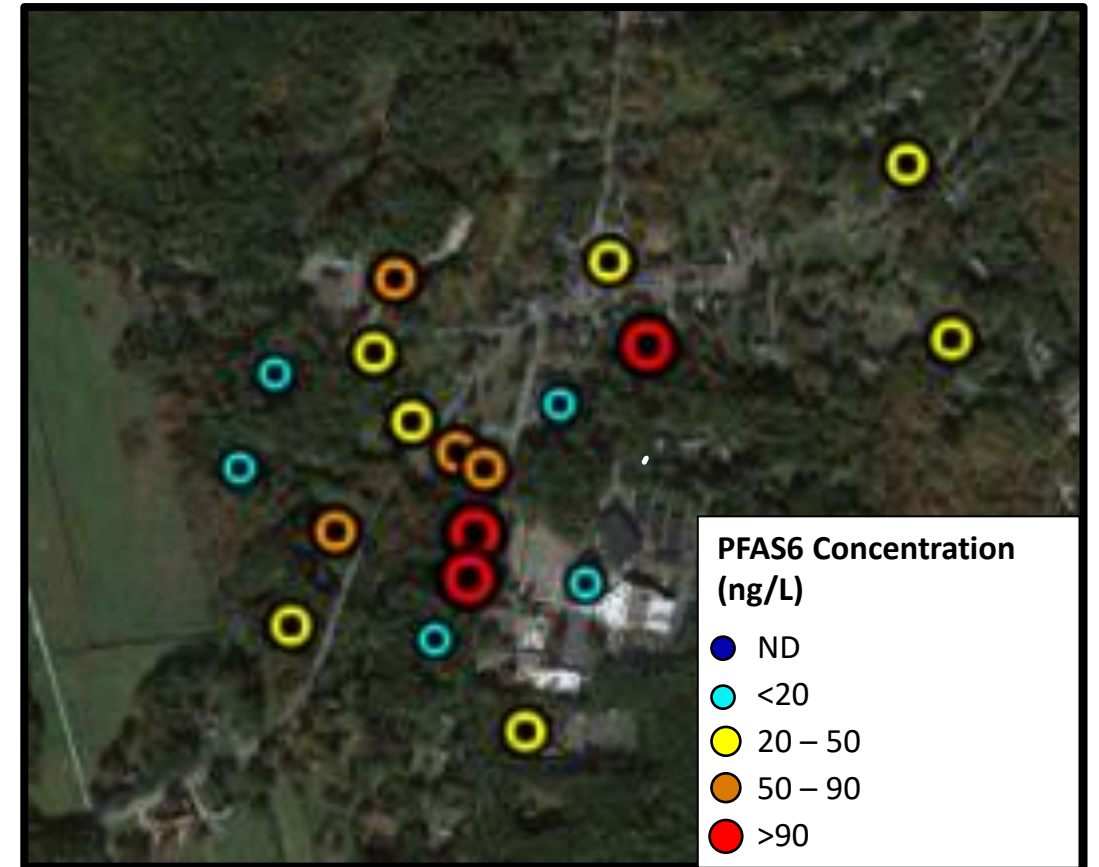
Additional Information



- **Massachusetts PFAS INTERAGENCY TASKFORCE - Final Report April 2022**
 - Recommended:
 - Providing Funds for a 2nd round of AFFF Take-Back Program (\$250,000 allocated in FY2023 Budget)
 - Prohibiting the use of AFFF for firefighting training & maintenance
 - Reducing the use of AFFF in emergency responses and
 - Requiring fire departments to notify MassDEP of releases of AFFF
- **NEWMOA AFFF Working Group**
 - Issues – decontamination

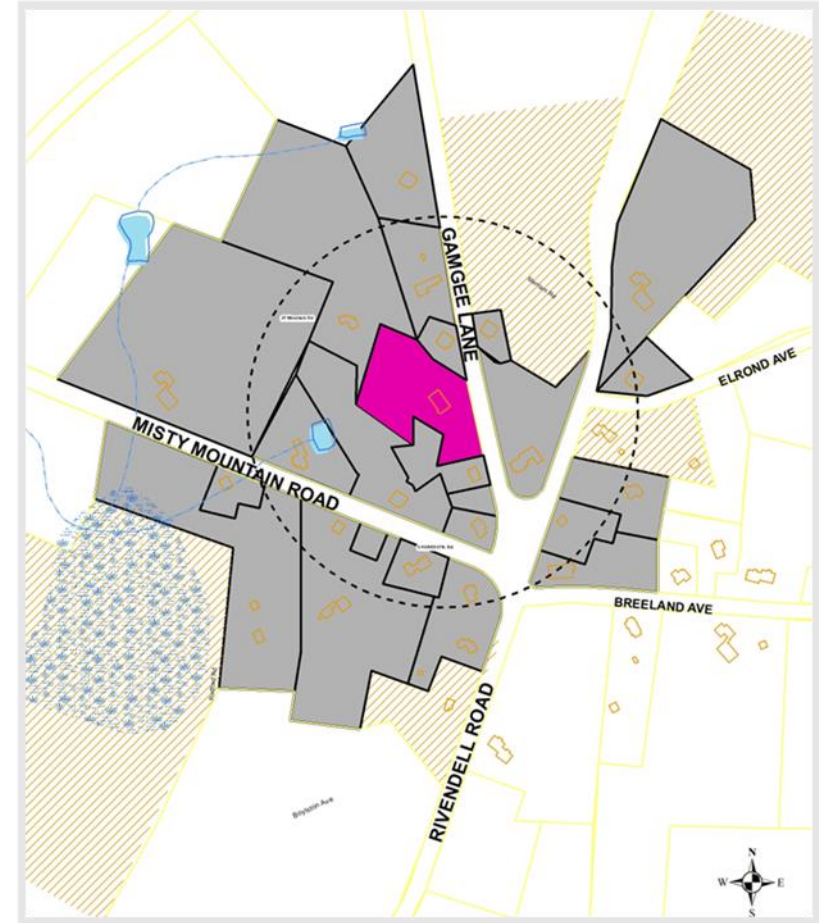
PFAS – Ongoing Site Discovery & Response

- PFAS sites generally identified:
 - PWS or Private Well sampling results – free sampling ended 6/22
 - Known sites start sampling for PFAS and find it
 - Property use or incident indicate potential PFAS, *due diligence* sampling confirms PFAS



PFAS – BWSC Response

- Source/site discovery activities – seeking to identify
 - Other potential impacts (e.g., additional private wells)
 - Seeking to identify Potentially Responsible Party(ies)
- For Imminent Hazards (PFAS6 > 90 ng/l) - provide bottled water, install POETS, provide O&M on POETs

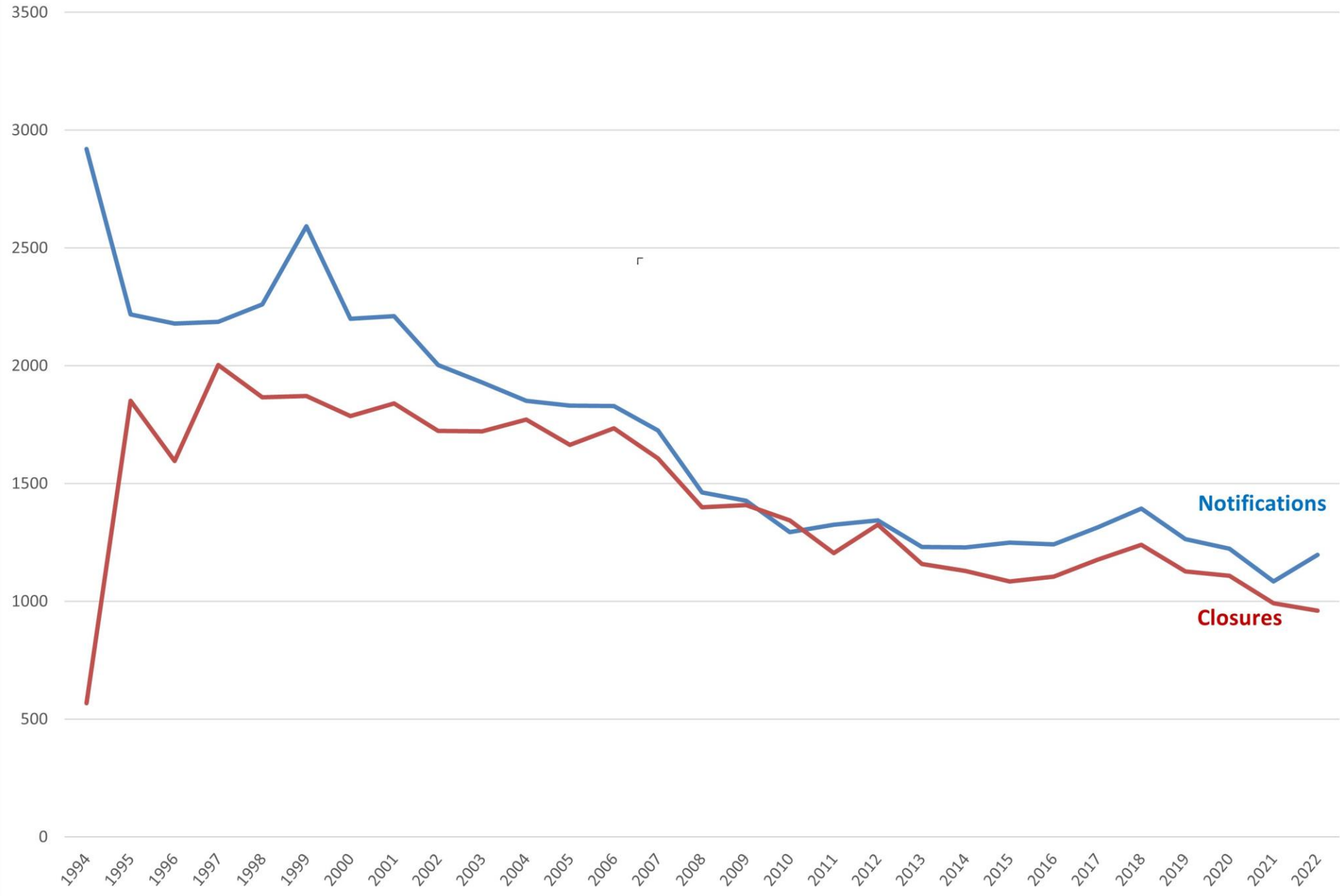


PFAS Response To Date

- Approaching 100 PFAS-related RTNs
- PRPs conducting majority of Imminent Hazard responses
- MassDEP has installed & is maintaining 37 POETs

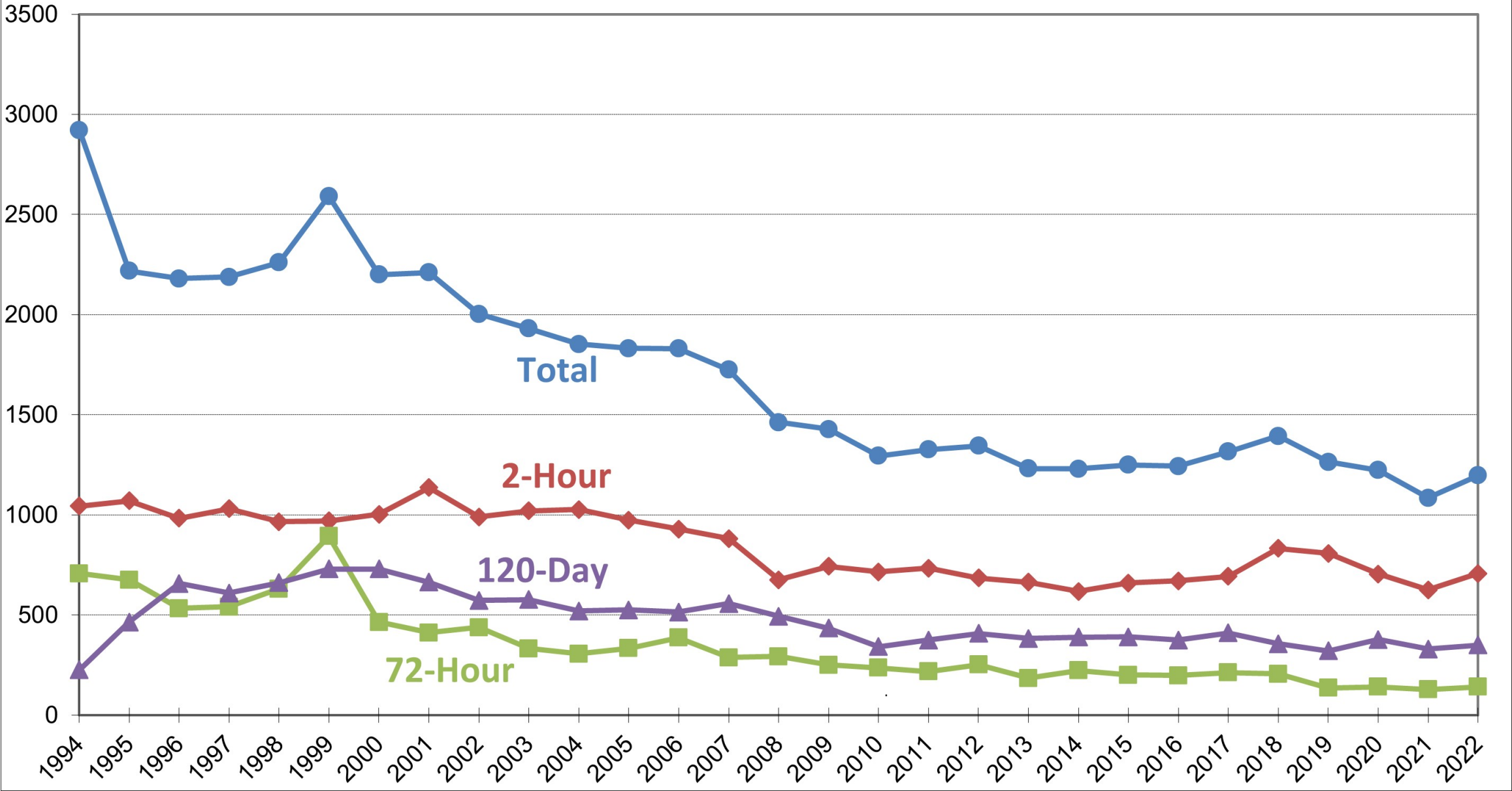
Some Program Measures

Total Notifications and Closures
(Fiscal Year)

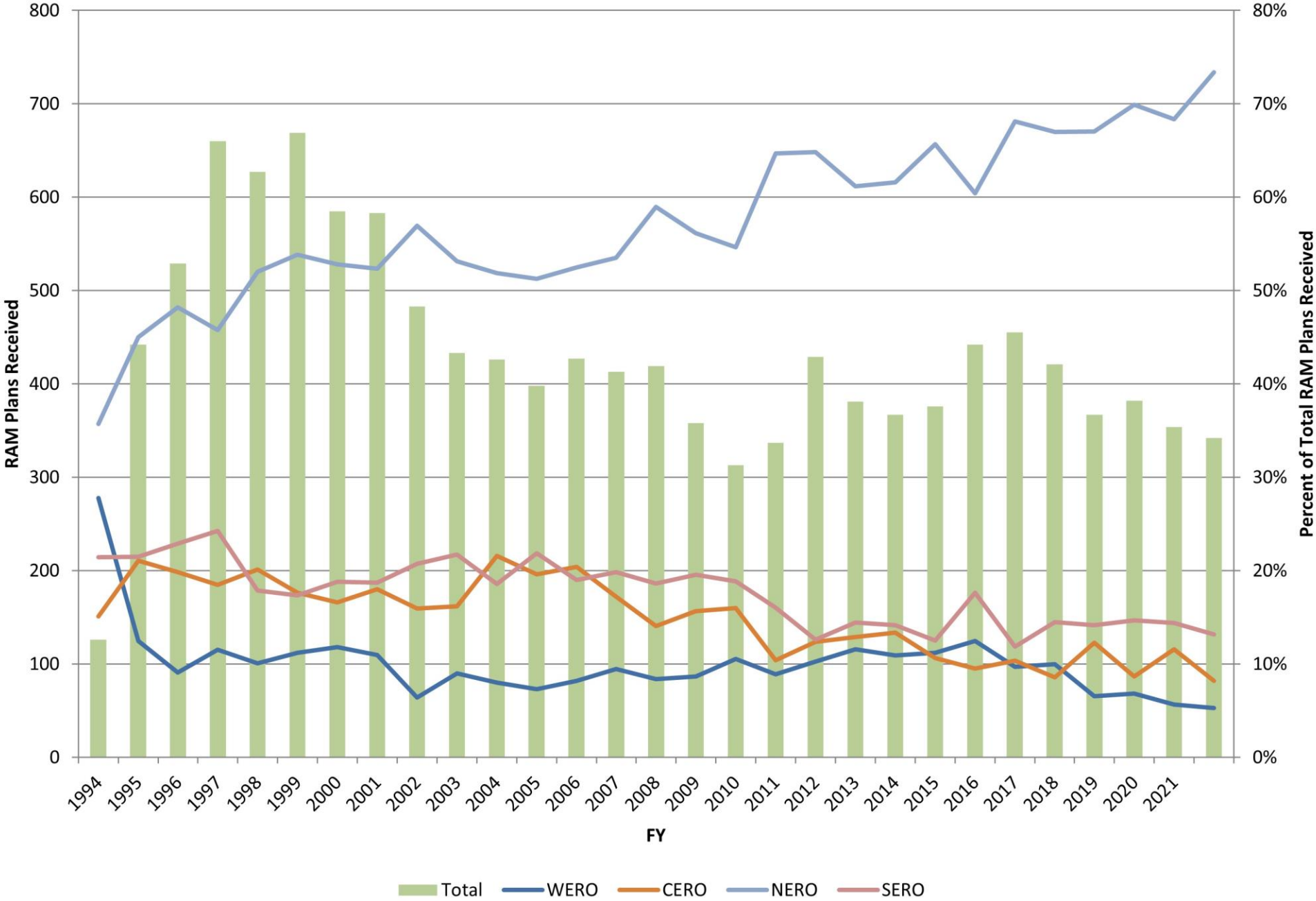


Releases by Notification Category

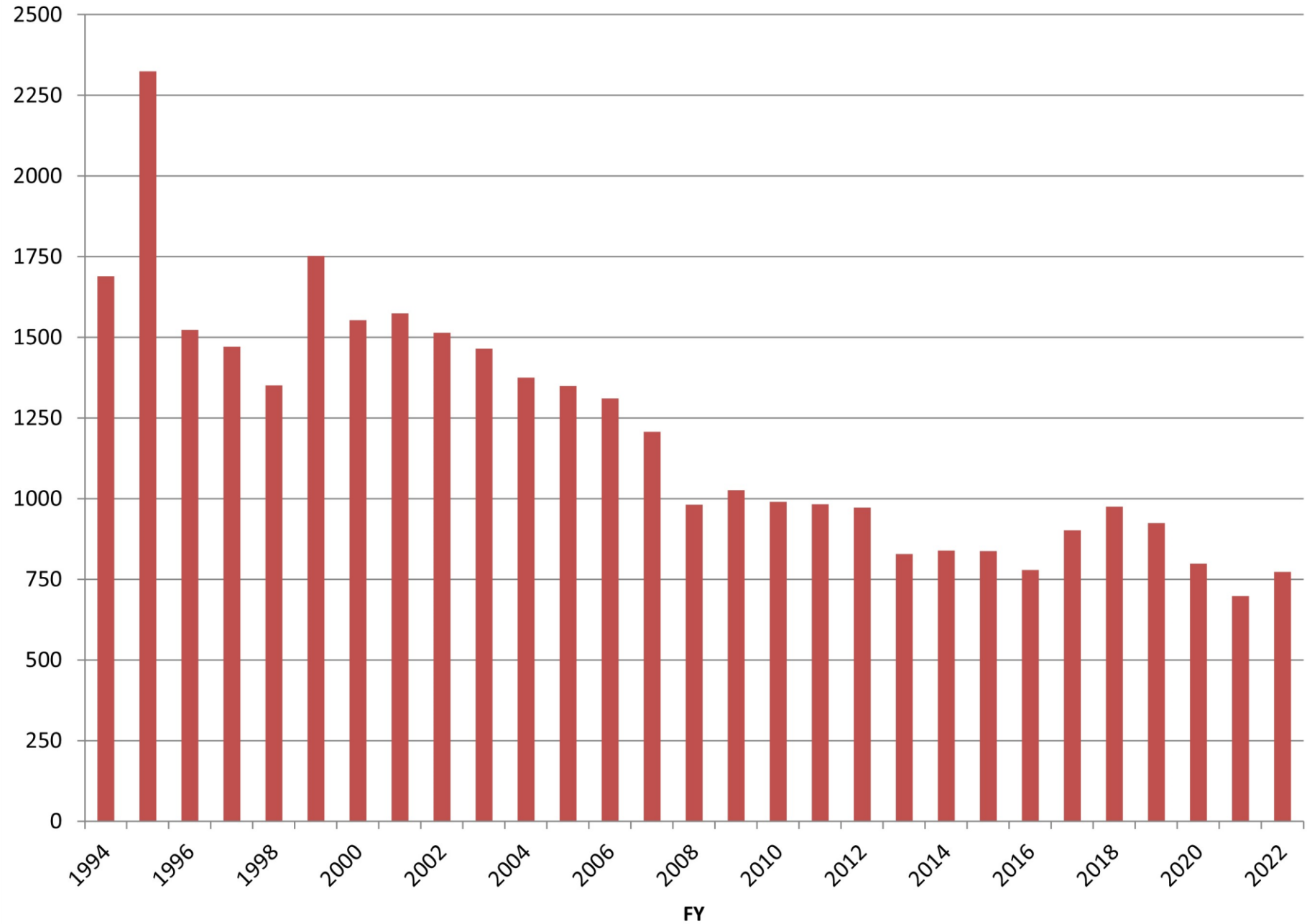
(Fiscal Year)



Release Abatement Measure Activity

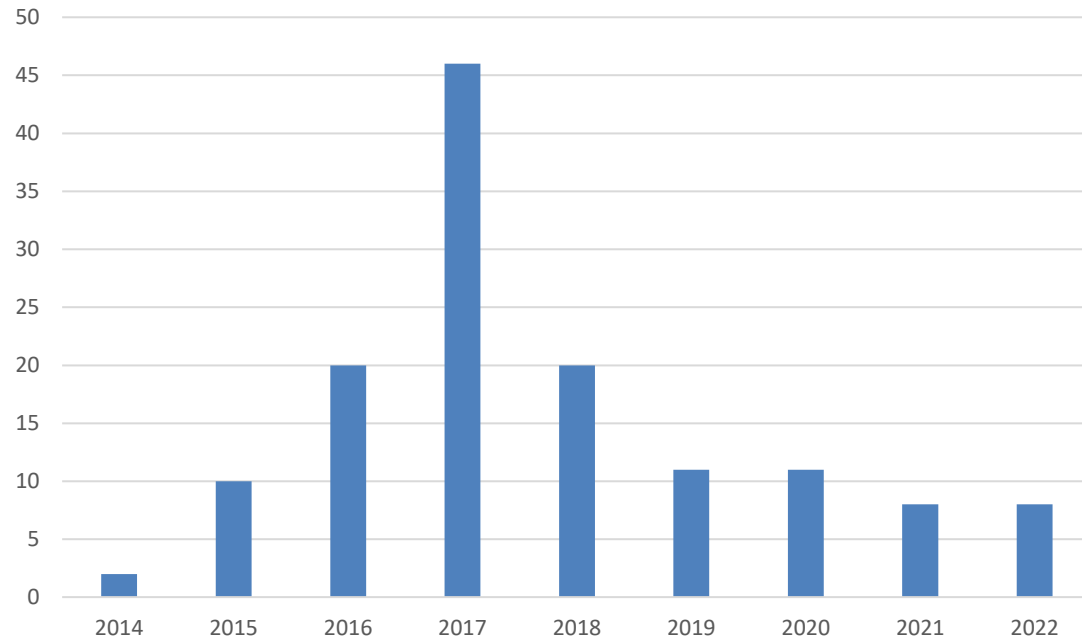


Immediate Response Action Approvals by Fiscal Year



Active Exposure Pathway Mitigation Measures

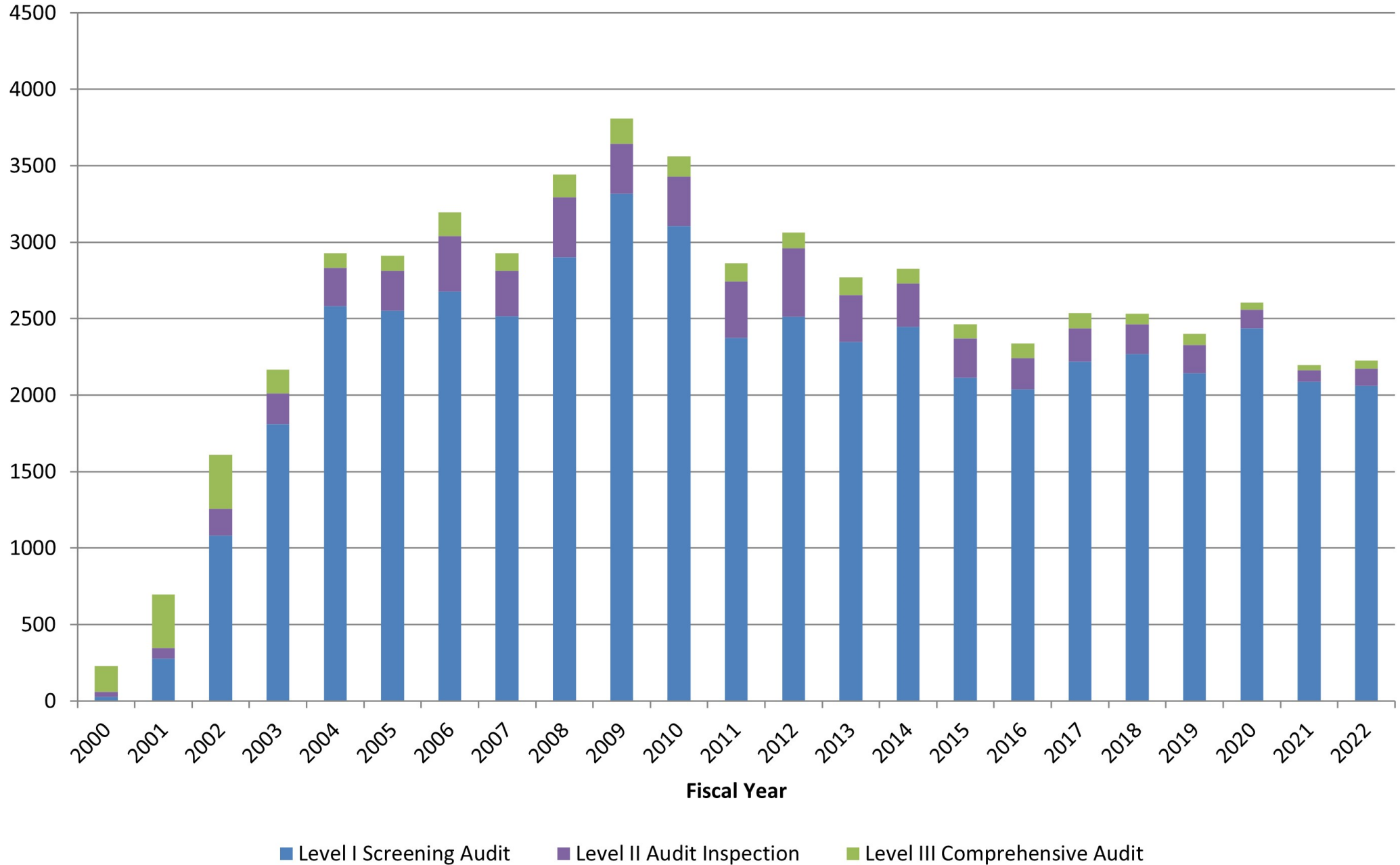
AEPMR Registrations By Year



Status	# RTNs
Perm. Soln.	70
ROS	22
Temp. Soln.	16
Other	28
Total	136



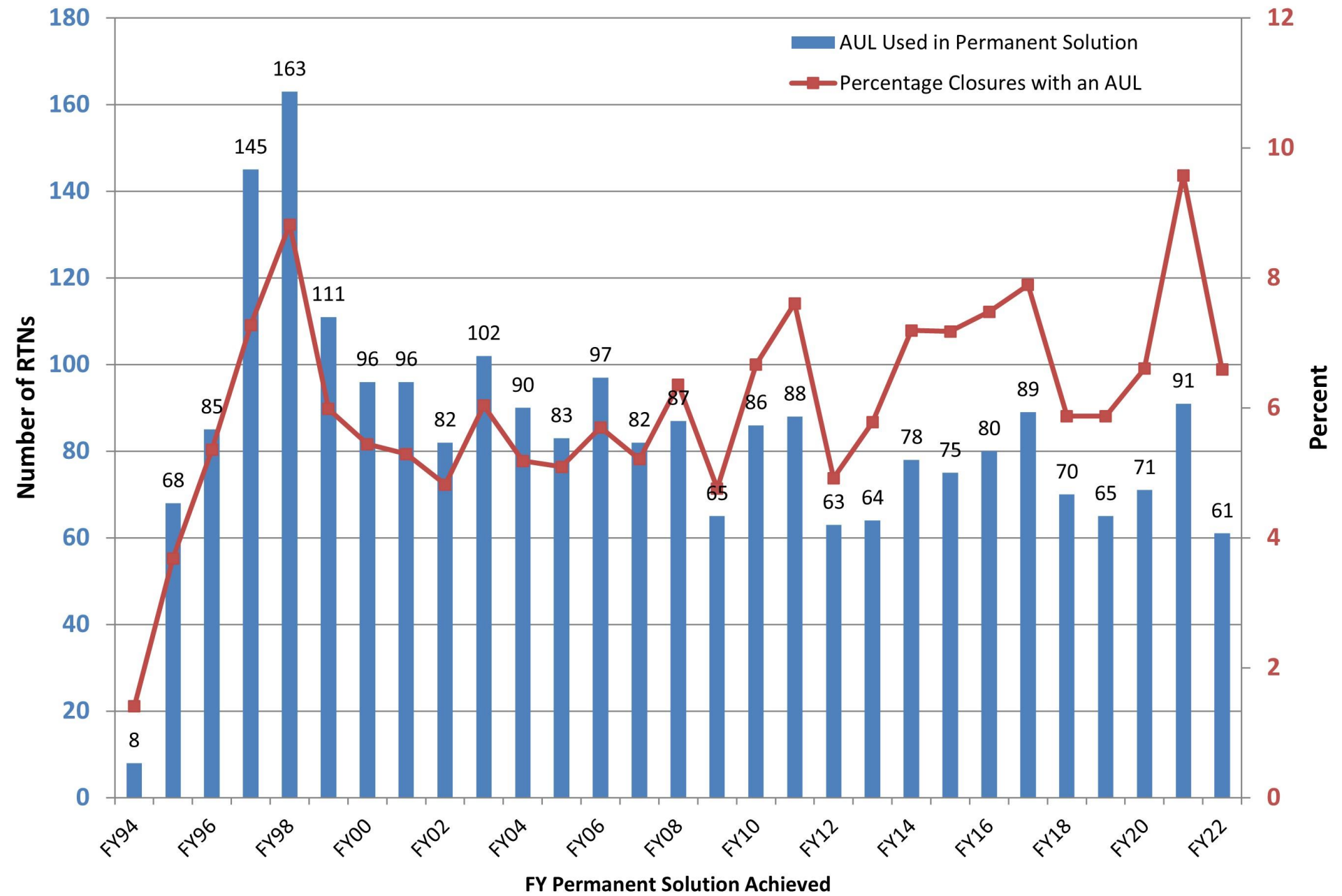
MassDEP Audits Complete by FY



Audits

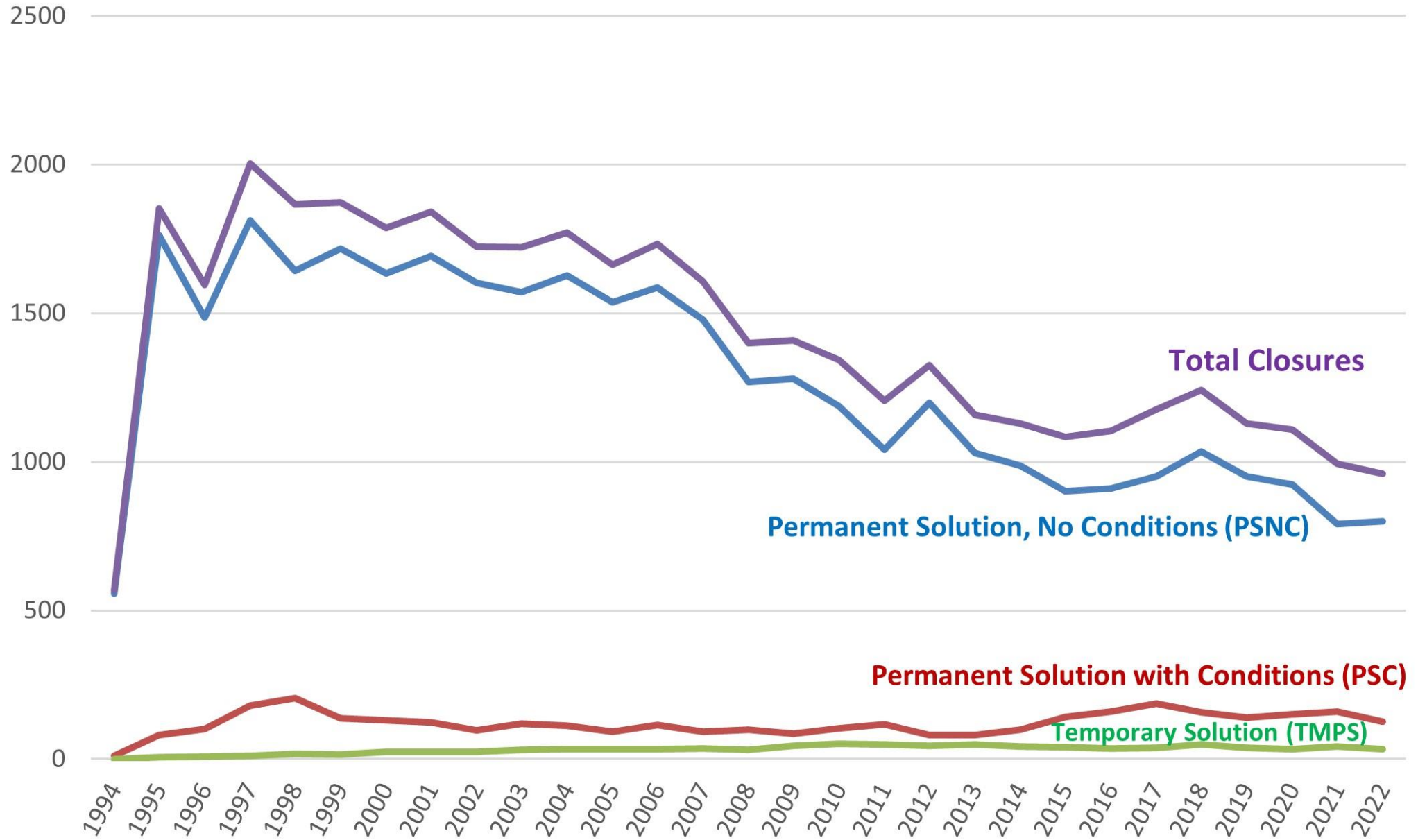
Audit Type	2019	2020	2021	2022
Level I -- technical screening audit	2144	2436	2087	2062
Level II – site inspection audit	186	123	78	113
Level III – comprehensive audit	72	46	31	51
Total Audits	2402	2605	2196	2226

Trend in the Use of AULs

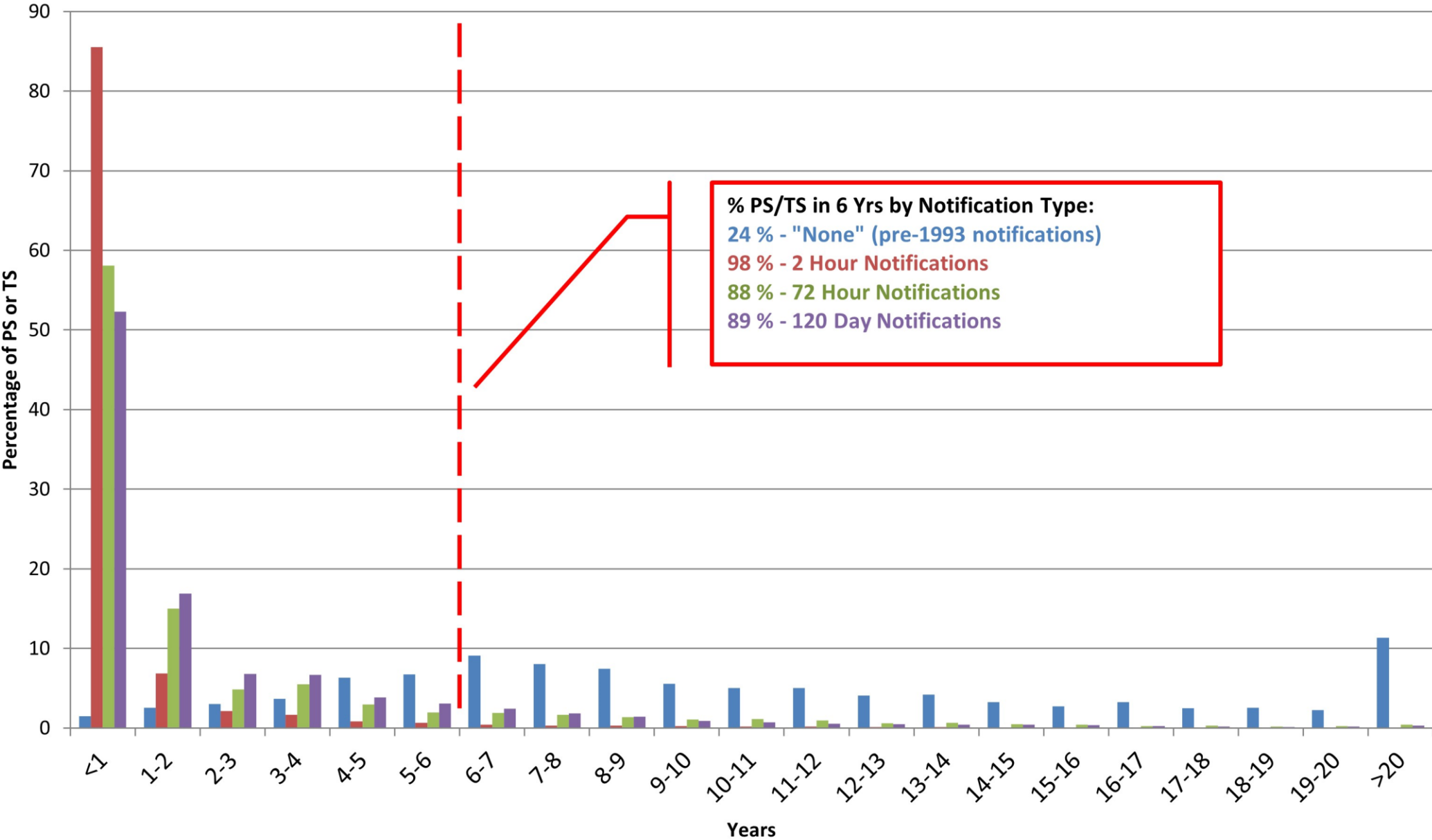


Site Cleanup & Closures by Category

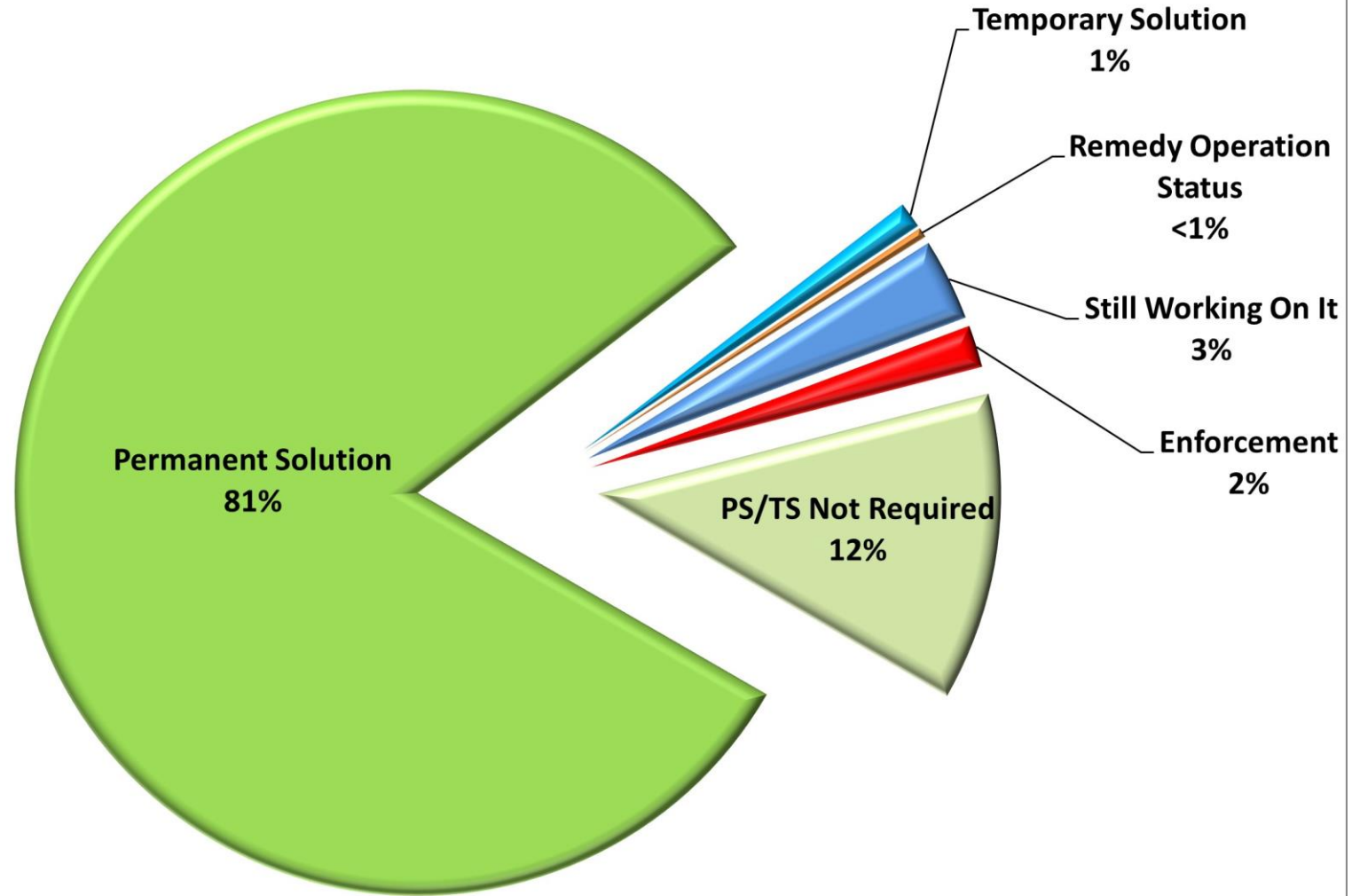
(Fiscal Year)



Time-to-Permanent or Temporary Solution, by Notification Category (through 6/30/2022)



FY16 Notifications (most recent 6-yr period): Where Are They Now?



Waste Site Cleanup Advisory Committee

- Background
- Committee seats/sectors
- Committee terms, expectations
- Advisory Role
- Meeting format

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- Background
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Advocacy / Site Neighbors
Public Interest – Environmental
Public Interest – Health
Local Health
Municipal Officials
Water
Academia
Petroleum
PRP Attorneys
Manufacturing
Small Business
21E Consultants
Licensed Site Professional Association
Real Estate/Lending

Waste Site Cleanup Advisory Committee

- Background
- Committee seats/sectors
- Committee terms, expectations
- Advisory Role
- Meeting format/in-person option

- Next monthly Office Hours – TBD

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